
Overview

This standard is about the creation of open drains to a given specification

The specification will include the route, profile, depth and grade of the drain together with the treatment of excavated material and the acceptable tolerances

The specification also includes the requirements of both the law and the employing/client organisation

Drainage systems may be pre-marked by others but in many cases you will be required to mark the drains yourself

LANTw5 - SQA Unit Code H2PY 04

Create an open drainage system

Performance criteria

You must be able to:

- P1 assess the risk associated with the site and proposed works
- P2 select and implement appropriate working method in accordance with the assessed risks
- P3 create a new drain which meets the given specification
- P4 make effective use of the available resources
- P5 select, prepare and use tools and equipment that are appropriate for to the work, safely and effectively
- P6 maintain the security of machinery and equipment on site
- P7 follow organisational and industry environmental good practice and minimise environmental damage
- P8 maintain the health and safety of yourself and others at all times in accordance with current legislation

LANTw5 - SQA Unit Code H2PY 04

Create an open drainage system

Knowledge and understanding

You need to know and understand:

- K1 how to identify hazards and assess risks
- K2 how to interpret risk assessments
- K3 how to interpret plans and **specifications** for a new drainage system
- K4 emergency planning and procedures relevant to the site
- K5 how to **create drains** in various soils, including organic and mineral soils
- K6 how to extend an existing drainage system
- K7 how to recognise specified aspects of the site which should be preserved
- K8 the implications of terrain, soil texture and structure, season, weather and species
- K9 the implications of flow rate in drainage systems
- K10 the types of tools and equipment required and how to maintain and use these safely and effectively
- K11 why it is important to maintain safety and security of equipment and vehicles when on site
- K12 the responsibilities of the landowner
- K13 the potential impacts of your work on the environment and how these can be minimised
- K14 your responsibilities under current environmental, health and safety legislation and codes of practice

LANTw5 - SQA Unit Code H2PY 04

Create an open drainage system

**Scope/range
related
knowledge
and
understanding**

Create drains in:

- 1 open ground
- 2 felled forest
- 3 woodland sites

Specification covering:

- 1 route
- 2 profile
- 3 depth
- 4 grade
- 5 flow rate
- 6 treatment of excavated material
- 7 tolerance of specification
- 8 legislative and organisational environmental requirements

LANTw5 - SQA Unit Code H2PY 04

Create an open drainage system

Developed by Lantra

Version number 1

Date approved December 2011

Indicative review date January 2016

Validity Current

Status Original

Originating organisation Lantra

Original URN 029NTw2.1

Relevant occupations Arboriculture and forestry; Coppicing; Gardener; Park ranger

Suite Treework; Horticulture

Key words Drainage; create; tree; forest; woodland site
